

Solar Cooking

www.solarschoolhouse.org

Solar Potluck

un



Solar Schoolhouse



Sun-baked Mali

- 💧 Women spend hours collecting firewood for cooking fuel and/or to sell
- 💧 A donkey cartload is worth <\$3
- 💧 A donkey cartload lasts ~ 1 week for avg family, -> monthly cost = ~\$11 (which is ~ 1/4 of a family's income)
- 💧 Wood fuel is becoming increasingly scarce

Ref. "HotPot" Cookers kindle interest in sun-baked Mali. By Christine Danton, Solar Cooker Review April 2005



Mali cont.

- ☹ Smoke from fires leads to respiratory illness
- ☹ 6 million tons of wood consumed each year, an estimated 20x more than is replaced
- ☹ Alternative fuels are in limited supply and high priced (eg. LPGas)
- ☹ Deforestation and desertification advancing at an alarming rate.
- ☹what is the solution?

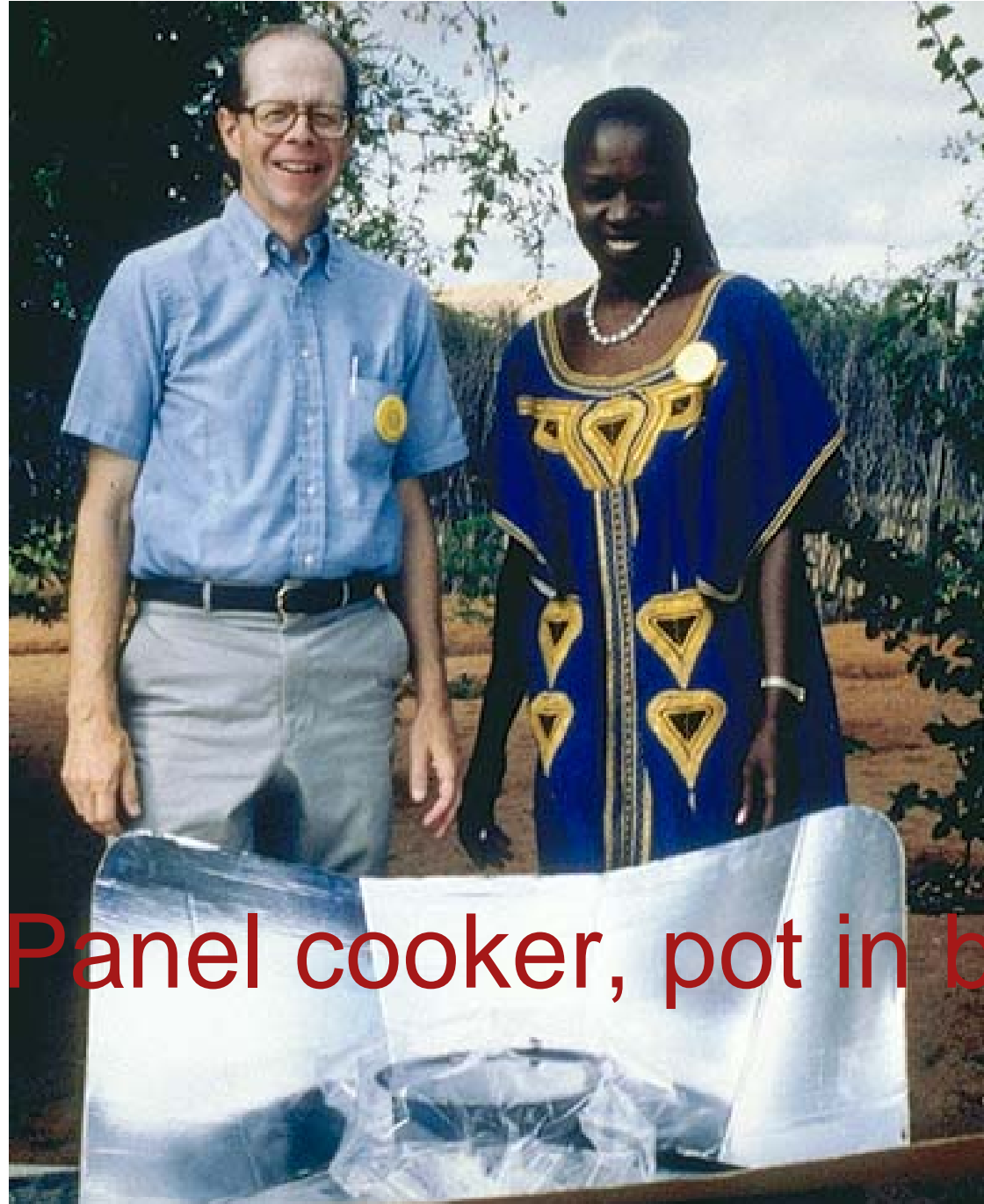


80% household energy is for cooking, 5 hours collecting for 2 days of fuel.





Over last 200 years many ingenious ways to solar cook have been developed

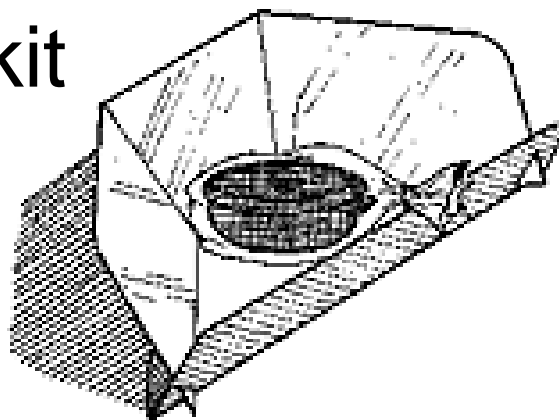


Panel cooker, pot in bag

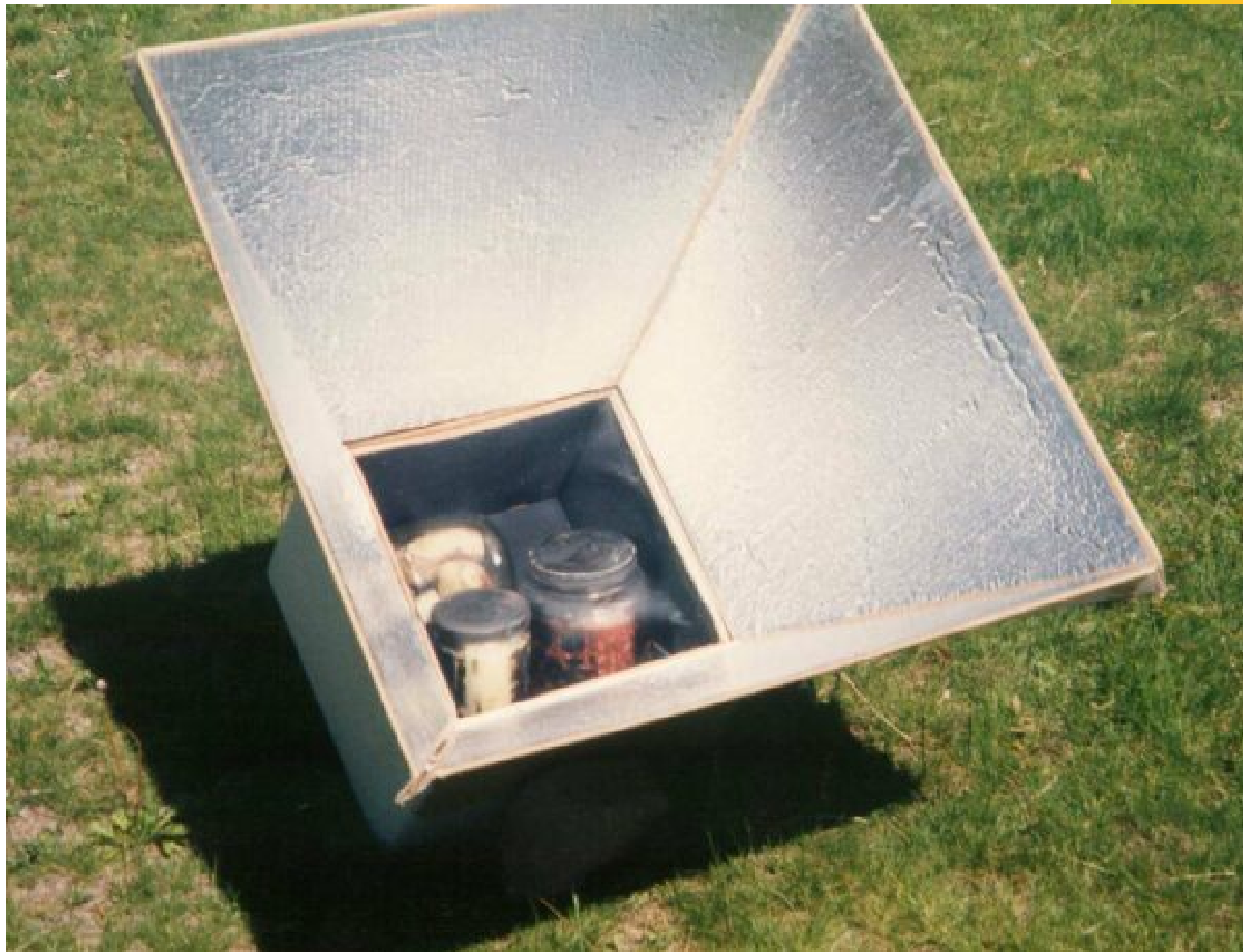




Solar cookit
malawi









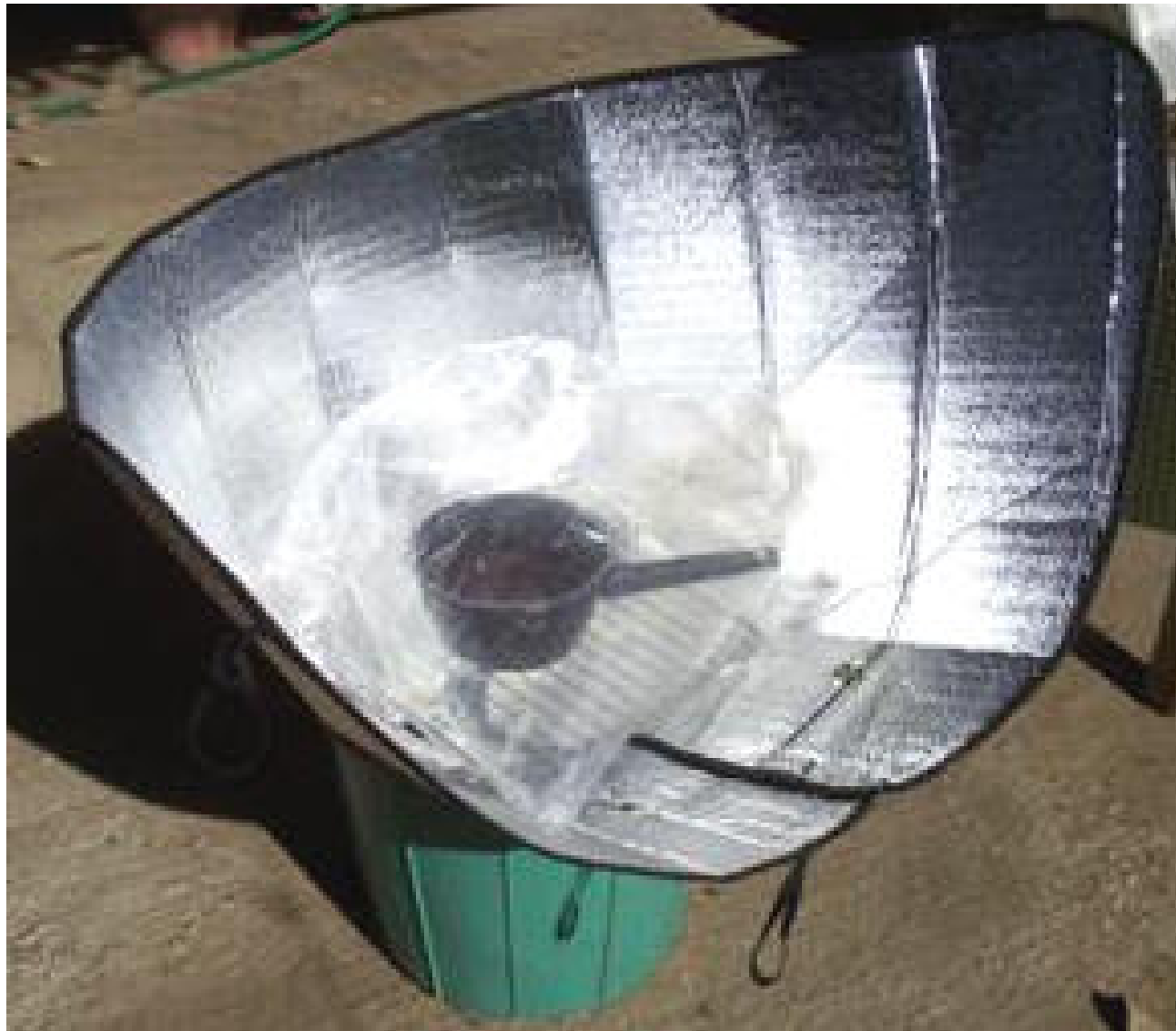


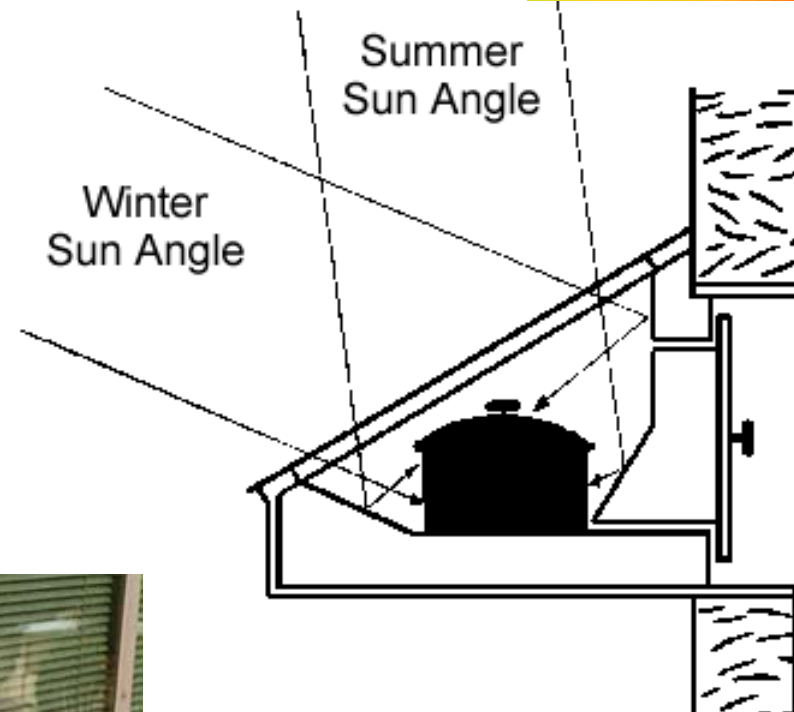
HotPot











In the wall
solar cooker











Water pasteurization 150F for
20 minutes kills most disease-
carying microbes



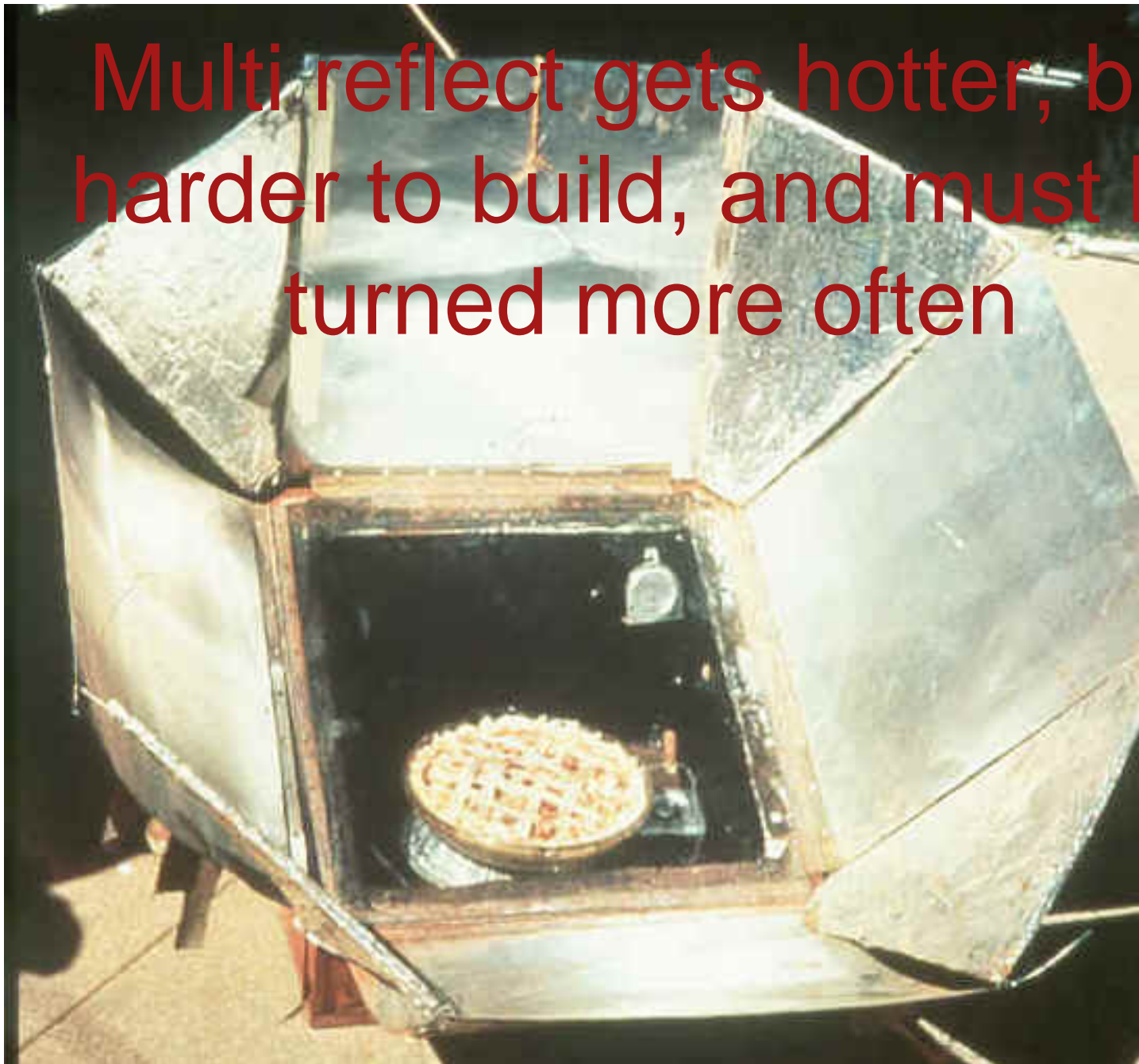








Multi reflect gets hotter, but harder to build, and must be turned more often



Concentrators get hotter, but must be turned often.



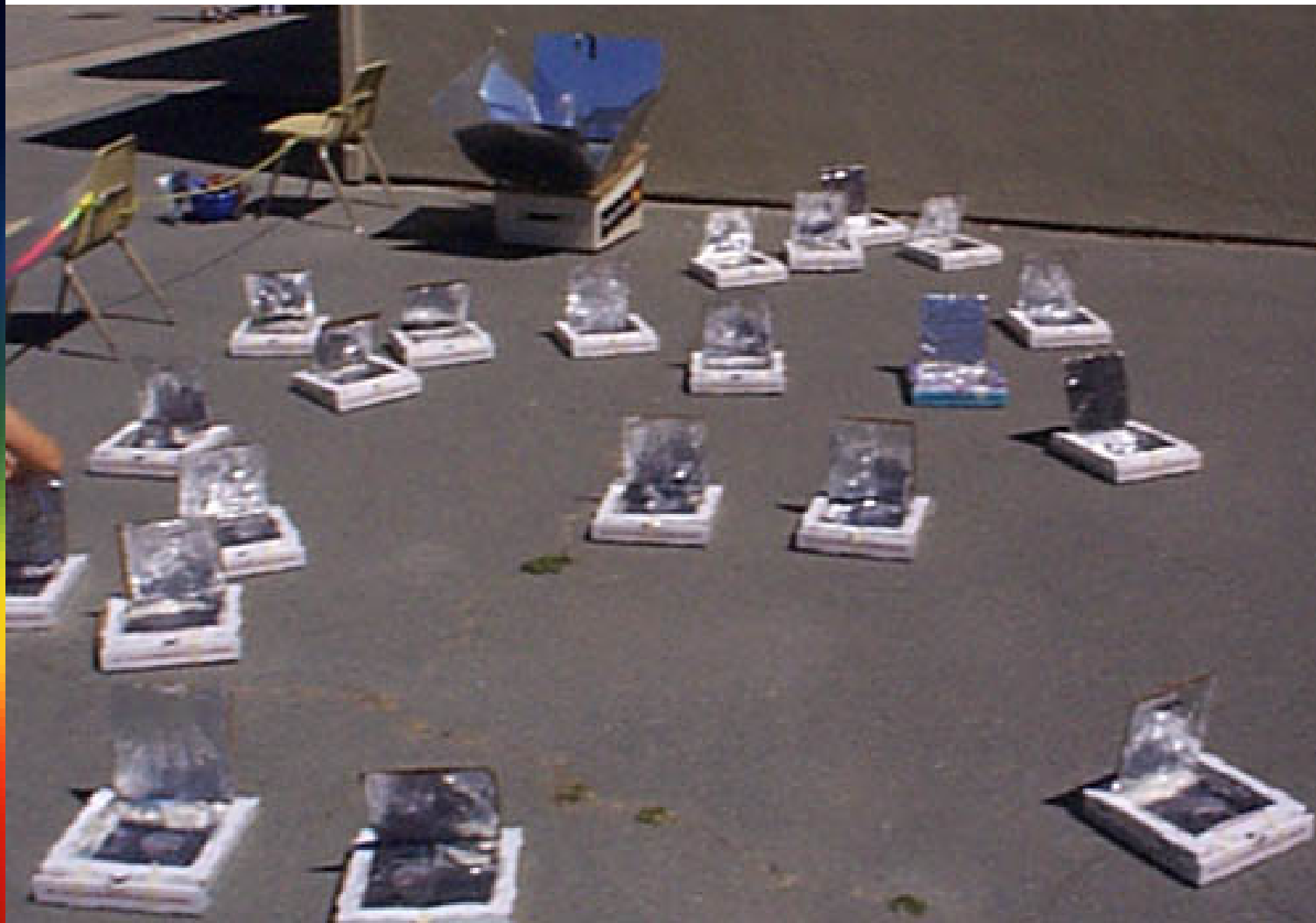


Voila dinners ready – 3-4
hours, can't overcook









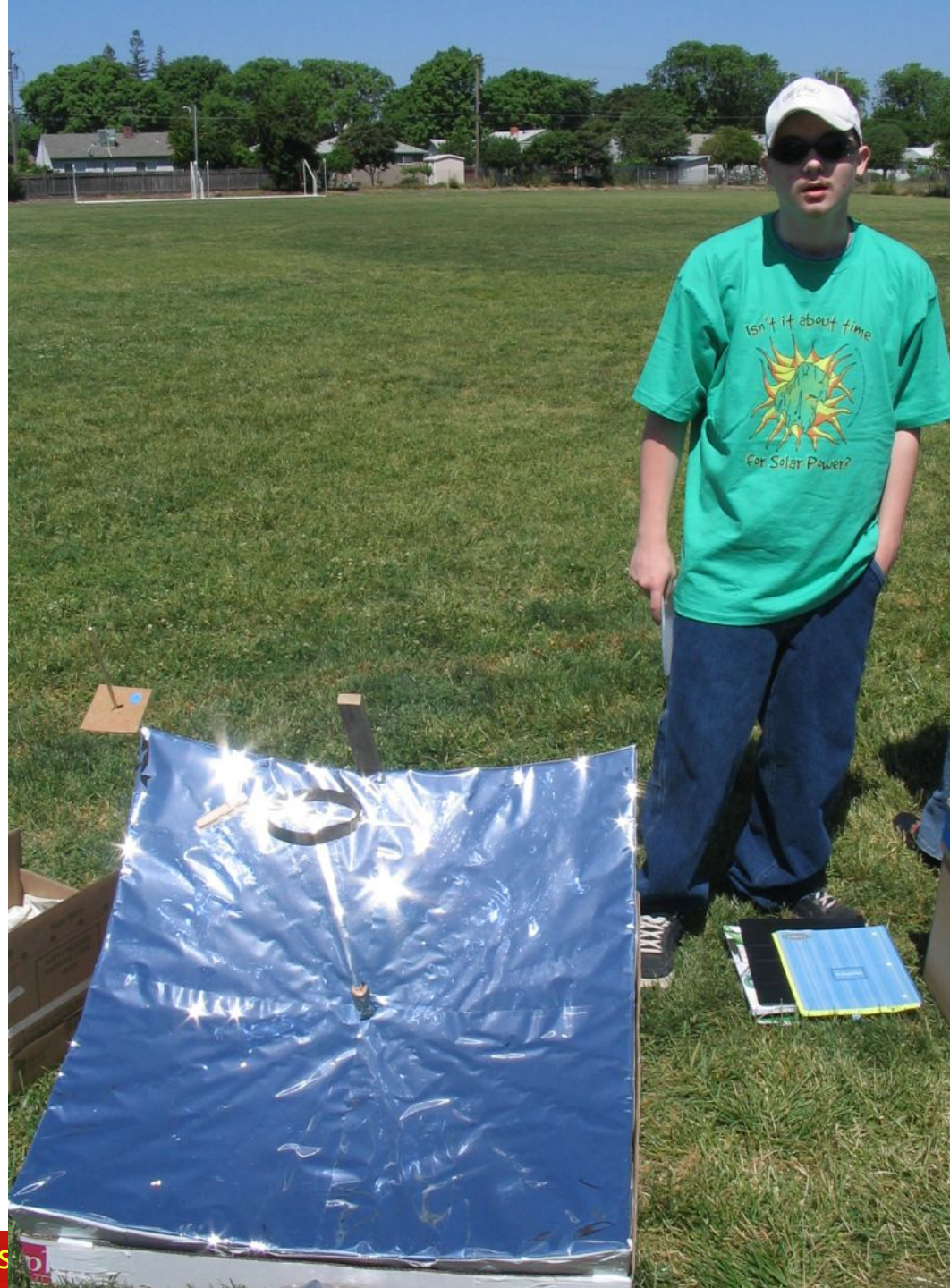


Rotisserie Cooker w/pv power











Solar Cookers International

☹ www.solarcooking.org

